

# TRACE METAL DIGESTION UNIT



For determining the acid-soluble proportion of metals in sewage sludges, sediments and soils with aqua regia, e.g. in accordance with DIN 38414/German standard method. Digestion in aluminium heating block with precise temperature control.

Tried and tested C. Gerhardt technology.

Available with various fittings.

**Scope of delivery** Complete System, including  
 Digestion tubes  
 water condenser  
 Trace metal condensation traps  
 Exhaust manifold  
 Water jet pump  
 Temperature-controller  
 Instruction manual

## TRACE METAL DIGESTION UNIT automatic (with Lift)

Type	SMA8A	SMA20A
<b>TECHNICAL DATA</b>		
Heating places	8	20
Size of tubes [ml]	250	250
Temperature max. [°C]	240	240
Programs	9 <sup>1)</sup>	9 <sup>1)</sup>
Nominal wattage [W]	1160	2360
Dimensions W / D / H [mm]	470 / 415 / 1000 <sup>2)</sup>	470 / 530 / 1000 <sup>2)</sup>
Weight [kg]	32	46
Nominal voltage [VAC]	230 / 115	230 / 115
Frequency [Hz]	50 - 60 <sup>3)</sup>	50 - 60 <sup>3)</sup>
<b>DELIVERS</b>		
KJELDATHERM-block	1 x (12-0005)	1 x (12-0006)
Insert rack EB-A for tubes	1 x (12-0710)	1 x (12-0722)
Motorlift console EBL-C	1 x (12-0265)	1 x (12-0265)
Insert rack for condensers	1 x (12-0249)	1 x (12-0250)
CSB/SMA digestion tubes KMG, 250 ml (with KS40)	8 x (12-0321)	20 x (12-0321)
CSB/SMA condensers SMK (with KS40)	8 x (12-0322)	20 x (12-0322)
Trace metal cooling trap	8 x (12-0320)	20 x (12-0320)
PVC-exhaust manifold	1 x (12-0298)	1 x (12-0299)
Water jet pump	1 x (10-0088)	1 x (10-0088)
Temperature-time-controller TZ	1 x	1 x
<b>ORDER INFORMATION</b>		
Version 230 V	12-0062	12-0074
Version 115 V	12-0215	12-0222

1) Each program is available with 9 different heating steps that have programmable times and heating capacities

2) Height in lower lift position, in upper lift position + 100 mm

3) Version 115 V only 60 Hz



TRACE METAL DIGESTION UNIT manual (without Lift)

Type	SMA8M
<b>TECHNICAL DATA</b>	
Heating places	8
Size of tube [ml]	250
Temperature max. [°C]	430
Nominal wattage [W]	1000
Dimensions W / D / H [mm]	415 / 415 / 1150
Weight [kg]	29
Nominal voltage [VAC]	230 / 115
Frequency [Hz]	50 - 60
<b>DELIVERS</b>	
KJELDATHERM-block	1 x (12-0005)
Insert rack EB-M for tubes	1 x (12-0711)
Console EBM (without Lift)	8 x (12-0321)
CSB/SMA digestion tubes KMG, 250 ml (with KS40 Schliff)	8 x (12-0322)
CSB/SMA water condenser SMK (with KS40 Schliff)	8 x (12-0320)
Trace metal cooling trap	1 x (12-0298)
PVC-exhaust manifold	1 x (10-0088)
Water jet pump	1 x
Temperatur-controller	1 x
<b>ORDER INFORMATION</b>	
Version 230 V (with Controller TR)	12-0063
Version 230 V (with Controller TZ)	12-0425
Version 115 V (with Controller TZ) <sup>1)</sup>	12-0435

1) Version 115 V only available in combination with TZ-controller.

**TZ - CONTROL UNIT**



Order No.	Type	Description
12-0011	TZ	Programmable temperature time controller for KJELDATHERM-systems: - 9 programs with 9 program steps - accuracy < 0,5 % in the upper temperature range - Nominal voltage: 230 VAC, 50 - 60 Hz - Dimensions: W 85 / D 240 / H 255 mm - Temperature range: RT - 430 °C
12-0378	TZ	Programmable temperature time controller Identical to 12-0011, but as version 115 V, 60 Hz

**TR - TEMPERATURE CONTROLLER**



Order No.	Type	Description
12-0010	TR	Electronic temperature controller for manual KJELDATHERM-systems: - accuracy < 1,0 % in the upper temperature range - Nominal voltage: 230 VAC, 50 - 60 Hz - Dimensions: W 85 / D 150 / H 155 mm - Temperature range: RT - 430 °C

**Accessories**

Order No.	Description
12-0321	COD/SMA tube SMG, 250ml, with KS40, 4 pcs
12-0322	COD/SMA water condenser SMK, ball condenser, with KS40
12-0320	Cooling trap SMF, acc. to DIN, with NS29
12-0298	PVC exhaust manifold, 8-place
12-0299	PVC exhaust manifold, 20-place
12-0012	Cooling water valve WTZ, for TZ-controller, 230VAC 50-60Hz
10-0088	Water jet pump WSP
12-0057	TURBOSOG-scrubber unit TUR/K, with preseparator

More accessories and consumables on request.

